

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

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NOTICE OF ALLOWANCE AND ISSUE FEE DUE

CHARLES R. RUST MODDLING, KROST & RUST 530 NATIONAL CITY EAST SIXTH BLDG. CLEVELAND, OH 44114 All communications regarding this application should give the serial number, date of filing, name of applicant, and batch number.

Please direct all communications to the Attention of "OFFICE OF PUBLICATIONS" unless advised to the contrary.

The application identified below has been examined and found allowable for issuance of Letters Patent. PROSECUTION ON THE MERITS IS CLOSED.

	SC/SERIAL NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	I	DATE MAILED
	07/016:923	02/20/87	025	ROSEEN, R	254	12/07/88
arst Named Applicant	COOPERs		J÷	CARL.		

TITLE OF INVENTION

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METHOD AND APPARATUS FOR CONTINUOUSLY SHIFTING PHASE OF AN ELECTRONIC SIGNAL

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
6975	328-133,000	049	UTELETY	YES	\$280.00	03/07/89

The amount of the issue fee is specified in 37 C.F.R. 1.18. If the applicant qualified for and has filed a verified statement of small entity status in accordance with 37 C.F.R. 1.27, the issue fee is one-half the amount for non-small entities. The issue fee due printed above reflects applicant's status as of the time of mailing this notice. A verified statement of small entity status may be filed prior to or with payment of the issue fee. However, in accordance with 37 C.F.R. 1.28, failure to establish status as a small entity prior to or with payment of the issue fee precludes payment of the issue fee in the amount so established for small entities and precludes a refund of any portion thereof paid prior to establishing status as a small entity.

THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE as indicated above. The application shall otherwise be regarded as ABANDONED. The issue fee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office. Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of the notice of allowance, the issue fee is charged to the deposit account at the time of mailing of this notice in accordance with 37 C.F.R. 1.311. If the issue fee has been so charged, it is indicated above.

In order to minimize delays in the issuance of a patent based on this application, this Notice may have been mailed prior to completion of final processing. The nature and/or extent of the remaining revision or processing requirements may cause slight delays of the patent. In addition, if prosecution is to be reopened, this Notice of Allowance will be vacated and the appropriate Office action will follow in due course. If the issue fee has already been paid and prosecution is reopened, the applicant may request a refund or request that the fee be credited to a deposit account. However, applicant may request that the previously submitted issue fee be applied. If abandoned, applicant may request refund or credit to a deposit account.

In the case of each patent issuing without an assignment, the complete post office address of the inventor(s) will be printed in the patent heading and in the Official Gazette. If the inventor's address is now different from the address which appears in the application, please fill in the information in the spaces provided on PTOL-85b enclosed. If there are address changes for more than two inventors, enter the additional addresses on the reverse side of the PTOL-85b.

The appropriate spaces in the ASSIGNMENT DATA section of PTOL-85b must be completed in all cases. If it is desired to have the patent issue to an assignee, an assignment must have been previously submitted to the Patent and Trademark Office or must be submitted not later than the date of payment of the issue fee as required by 37 C.F.R. 1.334. Where there is an assignment, the assignee's name and address must be provided on the PTOL-85b to ensure its inclusion in the printed patent.

Advance orders for 10 or more printed copies of the prospective patent can be made by completing the information in Section 4 of PTOL-85b and submitting payment therewith. If use of a deposit account is being authorized for payment, PTOL-85c should also be forwarded. The order must be for at least 10 copies and must accompany the issue fee. The copies ordered will be sent only to the address specified in section 1 or 1A of PTOL-85b.

ΙŽ	Note attached communication from the Examiner.
	This notice is issued in view of applicant's communication filed

IMPORTANT REMINDER

Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. See 37 CFR 1.20 (e) — (j).



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SERIAL NUMBER FILING	DATE	FIRST NAMED APPLICANT		ATTORNEY DOCKET NO.
02/01.6×925 0	2720767	CCOF(E)	.1	6975

CHARLES & RUST MODDLING, KROST & RUST 581 MATICAAL CITY EAST SIXTH GLOG, CLEVELAND, OH 44114

... Information Disclosure Citation, PTO-1449

EXAM	tiner		
ROSHENAR			
ART UNIT	PAPER NUMBER		
254	10		

DATE MAILED:

12/07/38

NOTICE OF ALLOWABILITY

PART L À						
1. This communication is responsive to	ment filed 11-25-88					
 All the claims being allowable, PROSECUTION OF 	N THE MERITS IS (OR REMAINS) CLOSED in this application. If not included nce And Issue Fee Due or other appropriate communication will be sent in due					
3. X The allowed claims are						
4. The drawings filed on	are acceptable.					
	under 35 U.S.C. 119. The certified copy has [_] been received. [_] not been o, filed on					
Note the attached Examiner's Amendment.	5. O Note the attached Examiner's Amendment.					
7. Note the attached Examiner Interview Summary Rec						
8. Note the attached Examiner's Statement of Reasons	for Allowance. Below.					
9. Note the attached NOTICE OF REFERENCES CITED						
10. Note the attached INFORMATION DISCLOSURE CIT	ATION, PTO-1449.					
PART II.						
	comply with the requirements noted below is set to EXPIRE THREE MONTHS illure to timely comply will result in the ABANDONMENT of this application. 37 CFR 1.136(a).					
Note the attached EXAMINER'S AMENDMENT or N or declaration is deficient. A SUBSTITUTE OATH OR	IOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath DECLARATION IS REQUIRED.					
2. APPLICANT MUST MAKE THE DRAWING CHANGE OF THIS PAPER.	S INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE					
CORRECTION IS REQUIRED.	TICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No.					
b. 1 The proposed drawing correction filed on 2-18-1 REQUIRED.	has been approved by the examiner. CORRECTION IS					
REQUIRED.	the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS					
d. Format drawings are now REQUIRED.						
Any response to this letter should include in the upper \dot{r} i and issue fee due: issue batch number, date of t	ght hand corner, the following information from the NOTICE OF ALLOWANCE HE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.					
Attachments:						
_ Examiner's Amendment	Notice of Informal Application, PTO-152					
Examiner Interview Summary Record, PTOL- 413	_ Notice re Patent Drawings, PTO-948					
Reasons for Allowance Notice of References Cited, PTO-892	_ Listing of Bonded Draftsmen _ Other					

The corrections of 35 U.S.C. 112 problems and addelimitations of linear variation over come the prior art.